

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Oliver Griesbeck et al.

Title: GENETICALLY ENCODED
BIOINDICATORS OF
CALCIUM-IONS

Appl. No.: 10/567,091

International 8/4/2004
Filing Date:
371(c) Date:

Examiner: Unassigned

Art Unit: 1656

Confirmation 4598
Number:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first official action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English. The relevance of the references listed on the PTO/SB/08 are described in the specification.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date May 2, 2007

By Michele M. Simkin

FOLEY & LARDNER LLP
Customer Number: 22428
Telephone: (202) 672-5538
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Michele M. Simkin
Attorney for Applicant
Registration No. 34,717

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT May 2, 2007 <i>(use as many sheets as necessary)</i>				Complete if Known		
				Application Number		10/567,091
				Filing Date		02/03/2006
				First Named Inventor		Oliver Griesbeck et al.
				Art Unit		1656
				Examiner Name		Unassigned
Sheet	1	of	7	Attorney Docket Number		085449-0185

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
		EP 1 238 982 A1	09/11/2002	Miyawaki et al.	

NON PATENT LITERATURE DOCUMENTS			
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	A1	Zhang et al., "Creating new fluorescent probes for cell biology," <i>Nat. Rev. Mol. Biol.</i> 3, pp. 906-918 (2002).	
	A2	Miyawaki et al., "Fluorescent Indicators for Ca ²⁺ based on green fluorescent proteins and calmodulin," <i>Nature</i> 388, pp. 882-887 (1997).	
	A3	Miyawaki et al., "Dynamic and quantitative calcium measurements using improved cameleons," <i>Proc. Natl. Acad. Sci. USA</i> 96, 2135-2140 (1999).	
	A4	Truong et al., "FRET-based in vivo Ca ²⁺ imaging by a new calmodulin-GFP fusion molecule," <i>Nat. Struct. Biol.</i> 8, 1069-1073 (2001).	
	A5	Baird, et al., "Circular permutation and receptor insertion within green fluorescent proteins," <i>Proc. Natl. Acad. Sci. USA</i> 96, 11241-11246 (1999).	
	A6	Nagai et al., "Circularly permuted green fluorescent proteins engineered to sense Ca ²⁺ ," <i>Proc. Natl. Acad. Sci. USA</i> 98, pp 3197-3202 (2001).	

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	A7	Nakai et al., "A high signal-to-noise Ca ²⁺ probe compound of a single green fluorescent protein," <i>Nat. Biotechnol.</i> 19, 137-141 (2001).	
	A8	Griesbeck et al., "Reducing the environmental sensitivity of yellow fluorescent protein: mechanism and applications," <i>J. Biol. Chem.</i> 276, 29188-29194 (2001).	
	A9	Reiff et al., "Differential regulation of active zone density during long-term strengthening of Drosophila neuromuscular junctions," <i>J. Neurosci.</i> 22, 9399-9409.	
	A10	Kerr et al., "Optical imaging of calcium transients in neurons and pharyngeal muscle of <i>C. elegans</i> ," <i>Neuron</i> 26, 583-594.	
	A11	Fiala et al., "Genetically expressed cameleon in <i>Drosophila melanogaster</i> is used to visualize olfactory information in projection neurons," <i>Curr. Biol.</i> 12, 1877-1884, (2002).	
	A12	Jurado, et al., "Apocalmodulin," <i>Physiol. Rev.</i> 79, 661-682 (1999).	
	A13	Saimi et al., "Calmodulin as an ion channel subunit," <i>Ann. Rev. Physiol.</i> , 64, 289-311 (2002).	
	A14	Benaim, et al., "Phosphorylation of calmodulin," <i>Eur. J. Biochem.</i> , 269, 3619-3725 (2002).	
	A15	Witchlow et al., "An improved linker for single-chain Fv with reduced aggregation and enhanced proteolytic stability," <i>Prot. Engineering</i> , 6: 989-995, (1993).	
	A16	Tsien et al., Measurement of Cytosolic Free Ca ²⁺ with Quin2, <i>Methods Enzymol.</i> , 172: 230-244 (1989).	
	A17	Tsien, "The green fluorescent protein," <i>Ann. Rev. Biochem.</i> 67: 509-544 (1998).	
	A18	Matz et al., "Fluorescent proteins from nonbioluminescent Anthozoa species," <i>Nat. Biotechnol.</i> , 17: 969-973 (1999).	
	A19	Wiedenmann et al., "Cracks in the β -can: Fluorescent proteins from <i>Anemonia Sulcata</i> (Anthozoa, Actinaria)", <i>Proc. Natl. Acad. Sci.</i> , 97: 14091-14096 (2000).	

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				First Named Inventor	Oliver Griesbeck et al.
				Art Unit	1656
				Examiner Name	Unassigned
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	A20	Labas et al., "Diversity and evolution of the green fluorescent protein family," <i>Proc. Natl. Acad. Sci.</i> , 99: 4256-4261 (2002).		
	A21	Karasawa et al., A green emitting fluorescent protein from Galaxeidae coral and its monomeric version for use in fluorescent labeling, <i>J. Biol. Chem.</i> , pp. 1-23, Figs. 1-8, Tab. 1, (2003).		
	A22	Shagin et al., "GFP-like proteins as ubiquitous metazoan superfamily: evolution of functional features and structural complexity," <i>Mol. Biol. Evol.</i> 21 (5): 841-50 (2004).		
	A23	Gurskaya et al., "GFP-like chromoproteins as source of far-red fluorescent proteins," <i>FEBS Lett.</i> , 507: 16-20 (2001).		
	A24	Wiedenmann et al., "A far red fluorescent protein with fast maturation and reduced oligomerization tendency from <i>Entacmaea quadricolor</i> (Anthozoa, Actinaria)," <i>Proc. Natl. Acad. Sci.</i> , 99: 11646-11651 (2002).		
	A25	Kendall et al., "Targeting aequorin to the endoplasmic reticulum of living cells," <i>Biochem. Biophys. Res. Commun.</i> 189: 1008-1016, (1992).		
	A26	Mattaj et al., "Nuclear cytoplasmic transport: the soluble phase," <i>Annu. Rev. Biochem.</i> , 67: 265-306 (1998).		
	A27	Lithgow, "Targeting of proteins to mitochondria," <i>FEBS Letters</i> , 476: 22-26 (2000).		

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	A28	Hurt et al., "The first twelve amino acids (less than half of the pre-sequence) of an imported mitochondrial protein can direct mouse cytosolic dihydrofolate reductase into the yeast mitochondrial matrix, <i>Embo J.</i> , (1985) 4: 2061-2068.	
	A29	Llopis et al., <i>Proc. Natl. Acad. Sci.</i> , USA (1999) 95 (12): 6803-8.	
	A30	Gould et al., <i>J. Cell Biol.</i> (1987) 105:2923-2931.	
	A31	Osumi et al., <i>Biochem. Biophys. Res. Commun.</i> , (1991) 181:947-954.	
	A32	Moriyoshi et al., <i>Neuron</i> , (1996), 16:255-260.	
	A33	Niethammer et al., <i>J. Neurosci.</i> , (1996) 16:2157-63.	
	A34	Le Maout et al., <i>Proc. Natl. Acad. Sci.</i> , USA (2001), 98:10475-10480.	
	A35	Hung et al., <i>J. Biol. Chem.</i> , (2001), 277:5699-5702.	

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	A36	Bennett et al., <i>Science</i> , (1992) 257:255-259.		
	A37	Elferink et al., <i>J. Biol. Chem.</i> , (1989), 264: 11061-4.		
	A38	Szczesna et al., <i>J. Biol. Chem.</i> , (1996), 271:8381-8386.		
	A39	Sorenson et al., <i>J. Biol. Chem.</i> , (1995) 270:9770-9777.		
	A40	Mumberg et al., <i>Nucl. Acids Res.</i> , (1994), 22:5767-5768.		
	A41	Schlesinger, <i>Trans. Bio. Technol.</i> , (1993) 11(1):18-22.		
	A42	He et al., <i>Proc. Natl. Acad. Sci.</i> , USA (1998), 95:2509-2514.		
	A43	Caroni, "Overexpression of Grown-Associated Proteins in the Neurons of Adult Transgenic Mice, 1997, <i>J. Neurosci. Methods</i> , 71:3-9.		

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	A44	Mayford et al., <i>Science</i> , (1996), 275:1678-1683.		
	A45	Toggas et al., <i>Nature</i> , (1994), 367:188-193.		
	A46	Mack et al., <i>Circ. Res.</i> (1999), 84: 852-861.		
	A47	Herrera et al., <i>Mol. Cell Endo</i> (1998) 140:45-50.		
	A48	Nagy et al., "Manipulating the Mouse Embryo, Production and Transgenic Mice," A Laboratory Manual, (1994), pp. 289-299.		
	A49	Albanese et al., "Recent advances in inducible expression in transgenic mice," (2002), <i>Semin. Cell. Dev. Biol.</i> , 13:129-41.		
	A50	Rubin et al., <i>Science</i> , (1982), 218:348-53.		
	A51	Mellow et al., "Methods in Cell Biology, Vol. 48, (1995), pp. 451-482.		

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	A52	Higashijima et al., " <i>Dev. Biol.</i> , (1997), 192:289-99.		
	A53	Bechtold et al., <i>C.R. Acad. Sci.</i> (1993), 316:1194-1199.		
	A54	McNamee, "Isolation and Characterization of Cell Membranes, <i>Biotechnique</i> 7: 466-475 (1989).		
	A55	Joost et al., "Subcellular Fractionation of Adipocytes and 3T3 L1 Cells," <i>Meth. Mol. Biol.</i> , 155:77-82.		
	A56	Grynkiewics et al., "A New Generation of Ca2+ Indicators with Greatly Improved Fluorescence Propertjes," <i>J. Biol. Chem.</i> , 260, 3440-3450 (1985).		
	A57	Sambrook et al., "Molecular Cloning," 3 rd ed. (2001), CSHL Press, Cold Spring Harbor, Chap. 5., pp. 84-87.		
	A58	Taketo, "FVB/N: An inbred Mouse Strain Preferable for Transgenic Analyses," <i>Proc. Natl. Acad. Sci. USA</i> , (1991), 88 (6): 2065-9.		
	A59	DATABASE UniProt "Online", (1996) XP002309312.		

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